Report Date: January 13, 2016

Total SGCN: 1: 15 2: 13 3:

Level 1 Threat Climate Change and Severe Weather

Level 2 Threat: Storms and Flooding

Description: Extreme precipitation and/or wind events

Species Associated With This Stressor:

Class	Actir	opterygii	(Ray-finned Fi	ishes)		SGCN Category
	Species: Alosa pseudohare	engus (Alewif	e)			2
	Severity:	Severe		Actionability:	Moderately actionable	
	Notes:		oding during the ers could help mit		upstream swimming ability. Preserving runoff.	g or improving
9	Species: Alosa sapidissimo	(American S	had)			1
	Severity:	Severe		Actionability:	Moderately actionable	
	Notes:		oding during the ers could help mit		upstream swimming ability. Preservin ty runoff.	g or improving
	Species: Salmo salar (Atla	ntic Salmon)				1
	Severity:	Severe		Actionability:	Moderately actionable	
	Notes:			_	tra-gravel egg development and fry e t streams from high spring run off.	emergence.
	Species: Acipenser oxyrino	hus (Atlantic	Sturgeon)			1
	Severity:	Moderate Se	verity	Actionability:	Actionable with difficulty	
	Notes:		_		fand nonpoint source pollution and s nelp mitigate high velocity runoff.	edimentation.
	Species: Alosa aestivalis (Blueback Her	ring)			1
	Severity:	Severe		Actionability:	Moderately actionable	
	Notes:		oding during the ers could help mit		upstream swimming ability. Preservin ty runoff.	g or improving
	Species: Osmerus mordax	(Rainbow Sm	nelt)			1
	Severity:	Severe		Actionability:	Moderately actionable	
	Notes:		oding during the ers could help mit		upstream swimming ability. Preservin ty runoff.	g or improving
	Species: Acipenser breviro	strum (Short	nose Sturgeon)			1
	Severity:	Moderate Se	verity	Actionability:	Actionable with difficulty	
	Notes:		_		ff, non-point source pollution, and senelp mitigate high velocity runoff.	dimentation.
Class	Aves	(Birds)				SGCN Category
:	Species: Chlidonias niger	(Black Tern)				2
	Severity:	Moderate Se	verity	Actionability:	Moderately actionable	
	Notes:		g and torrential r n at that site that		est or colony failure, potentially resul	ting in no
	Species: Gallinula galeata	(Common Ga	allinule)			2
	Severity:	Moderate Se	verity	Actionability:	Actionable with difficulty	
	Notes:	Flash floodin	g and torrential r	ains can cause no	est failure.	
:	Species: Ixobrychus exilis	(Least Bittern)			1
	Severity:	Moderate Se	verity	Actionability:	Actionable with difficulty	

Notes: Flash flooding and torrential rains can cause nest failure.

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Class	Aves	s (Birds)	CN Category				
Species: Sternula antillarum (Least Tern)							
-	Severity:	Severe Actionability: Actionable with difficulty					
	Notes:	Nesting habitat loss due to beach erosion may be mitigated through environmental review recommendations.					
Specie	e <mark>s: <i>Tringa flavipes</i> (</mark> l	Lesser Yellowlegs)	1				
	•	Moderate Severity Actionability: Actionable with difficulty					
	Notes:	Loss of coastal feeding and roosting habitats due to flooding and erosion. Some impacts maminimized through environmental review recommendations.	ay be				
Specie	es: Ammodramus ne	elsoni (Nelson's Sparrow)	2				
	Severity:	Moderate Severity Actionability: Highly actionable					
	Notes:	Reduced nesting success					
Specie	es: Charadrius melod	dus (Piping Plover)	1				
	Severity:	·					
	Notes:	Storms and flooding will cause beach erosion and loss of nesting habitat. Some impacts ma minimized through the environmental review process.	y be				
Specie	es: Calidris canutus r	rufa (Red Knot)	1				
	Severity:	Moderate Severity Actionability: Actionable with difficulty					
	Notes:	Effects from beach erosion may be mitigated through beach nourishment from dredging pro-	ojects.				
Specie	es: Arenaria interpre	Ruddy Turnstone)	2				
	Severity:	Moderate Severity Actionability: Actionable with difficulty					
	Notes:	Beach erosion may limit the number of roosting/feeding areas in southern Maine. Impacts mitigated through environmental permit review process.	may be				
Specie	es: Ammodramus ca	udacutus (Saltmarsh Sparrow)	1				
	Severity:	Severe Actionability: Actionable with difficulty					
	Notes:	Increasing intensity of summer rain storms.					
Specie	es: Calidris alba (Sar	nderling)	2				
	Severity:	Moderate Severity Actionability: Actionable with difficulty					
	Notes:	Habitat loss from beach erosion may be minimized through beach managmenet programs a environmental permit review. Beach nourishment can minimize short term impacts from h					
Specie	es: Cistothorus plate	ensis (Sedge Wren)	1				
	Severity:	Moderate Severity Actionability: Actionable with difficulty					
	Notes:	Torrential rains can cause nest failure. Every nesting pair is vital.					
Specie	es: Tringa solitaria (Solitary Sandpiper)	2				
	•	Moderate Severity Actionability: Actionable with difficulty					
	Notes:	Loss of inland marsh habitat due to flooding; could be mitigated with water level control an of upland buffers through environmental permit review.	d protection				
Specie	es: Tachycineta bicol	lor (Tree Swallow)	2				
	Severity:	Moderate Severity Actionability: Actionable with difficulty					
	Notes:	If climate change brings cooler wetter spring and summers in NE, nest success will decline					
Specie	es: Coturnicops nove	eboracensis (Yellow Rail)	2				
	Severity:	Moderate Severity Actionability: Actionable with difficulty					
	Notes:	Flash flooding and torrential rains can cause nest failure.					

Level 1 Threat Climate Change and Severe Weather

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Class Insecta (Insects) SGCN Category

Species: Lycaena dorcas claytoni (Clayton's Copper)

2

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Severity: Moderate Severity Actionability: Moderately actionable

Notes: Flooding by storms (actionable with difficulty), beaver impoundments (highly actionable), etc can drown

eggs/larvae and host plants

Species: Cicindela marginipennis (Cobblestone Tiger Beetle)

1

Severity: Moderate Severity Actionable with difficulty

Notes: Very severe floods could damage or destroy habitat on the single rivere where this beetle occurs in ME

Species: Cicindela marginata (Salt Marsh Tiger Beetle)

2

Severity: Moderate Severity Actionable with difficulty

Notes: Major storm events with flooding/waves could damage habitat

Species: Cicindela ancocisconensis (White Mountain Tiger Beetle)

Severity: Moderate Severity Actionable with difficulty

Notes: Very severe floods could damage or destroy habitat on rivers where this beetle occurs

Class Mammalia (Mammals)

SGCN Category

2

Species: Microtus pennsylvanicus shattucki (Penobscot Meadow Vole)

2

Severity: Moderate Severity Actionability: Actionable with difficulty

Notes: Climate change will likely include increased storm severity and sea level rise. Since the Penobscot

Meadow Vole is mainly found on islands, they may be vulnerable to severe weather events.

Class Merostomata (Horseshoe Crabs And Sea Scorpions)

SGCN Category

1

Species: Limulus polyphemus (Horseshoe Crab)

Severity: Severe Actionability: Actionable with difficulty

Notes: Severe storms coincident with mating and egg laying has resulted in mass strandings and loss of eggs

washed away in surf. Likelihood is low and unpredictable so actionability is low.

Habitats Associated With This Stressor:

Macrogroup Coastal Grassland & Shrubland

Habitat System Name: Northern Atlantic Coastal Plain Dune and Maritime Grassland

Notes: Severe storms may alter beach and dune dynamics

Habitat System Name: Northern Atlantic Coastal Plain Sandy Beach

Notes: Severe storms may alter beach and dune dynamics

Macrogroup Intertidal Mollusc Reefs

Habitat System Name: Gastropod Reef

Notes: Increased run-off could contribute to poor water quality, harmful algal blooms, etc.

Habitat System Name: Mussel Reef

Notes: Increased run-off could contribute to poor water quality, harmful algal blooms, etc.

Habitat System Name: Oyster Reef

Notes: Increased run-off could contribute to poor water quality, harmful algal blooms, etc.

Macrogroup Intertidal Mudflat

Habitat System Name: Freshwater Tidal Marsh

Notes: Leads to more high-nutrient run-off which may cause harmful algal blooms and enhance coastal acidification

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Macrogroup Intertidal Mudflat

Habitat System Name: Non-Vascular Mudflat

Notes: Leads to more high-nutrient run-off which may cause harmful algal blooms and enhance coastal acidification

Habitat System Name: Submerged Aquatic Vegetation

Notes: Leads to more high-nutrient run-off which may cause harmful algal blooms and enhance coastal acidification

Macrogroup Intertidal Sandy Shore

Habitat System Name: Sand Beach

Notes: Causes erosion of these habitats

Habitat System Name: Sand Flat

Notes: Causes erosion of these habitats

Habitat System Name: Submerged Aquatic Vegetation

Notes: Causes erosion of these habitats

Macrogroup Intertidal Tidal Marsh (peat-forming)

Habitat System Name: Acadian Coastal Salt Marsh

Notes: significant storm events may alter tidal marsh structure and compositon

Habitat System Name: Coastal Plain Tidal Marsh

Notes: significant storm events may alter tidal marsh structure and compositon

Macrogroup Intertidal Water Column

Habitat System Name: Confined Channel

Notes: Increased run-off could contribute to poor water quality, harmful algal blooms, etc.

Habitat System Name: Embayment

Notes: Increased run-off could contribute to poor water quality, harmful algal blooms, etc.

Habitat System Name: Exposed Shore

Notes: Increased run-off could contribute to poor water quality, harmful algal blooms, etc.

Macrogroup Lakes and Ponds

Habitat System Name: Vernal Pool

Notes: Hurricane Irene is an example

Macrogroup Northeastern Floodplain Forest

Habitat System Name: Laurentian-Acadian Floodplain Systems

Notes: Potential change in hydrology, sedimentation, and ultimately vegetation as a result of climate change

Macrogroup Rivers and Streams

Habitat System Name: Ephemeral

Notes: Hurricane Irene is an example

Habitat System Name: Small River

Notes: Hurricane Irene is an example

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The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.